

FIG. 1A

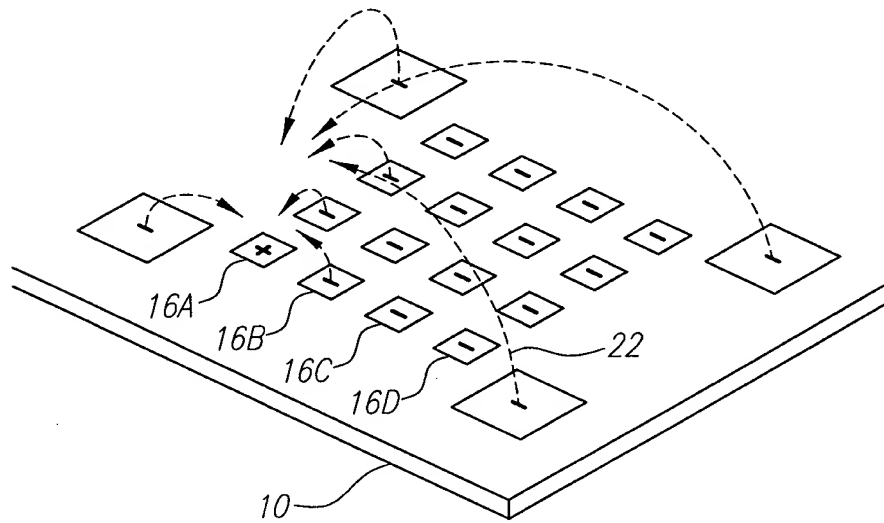
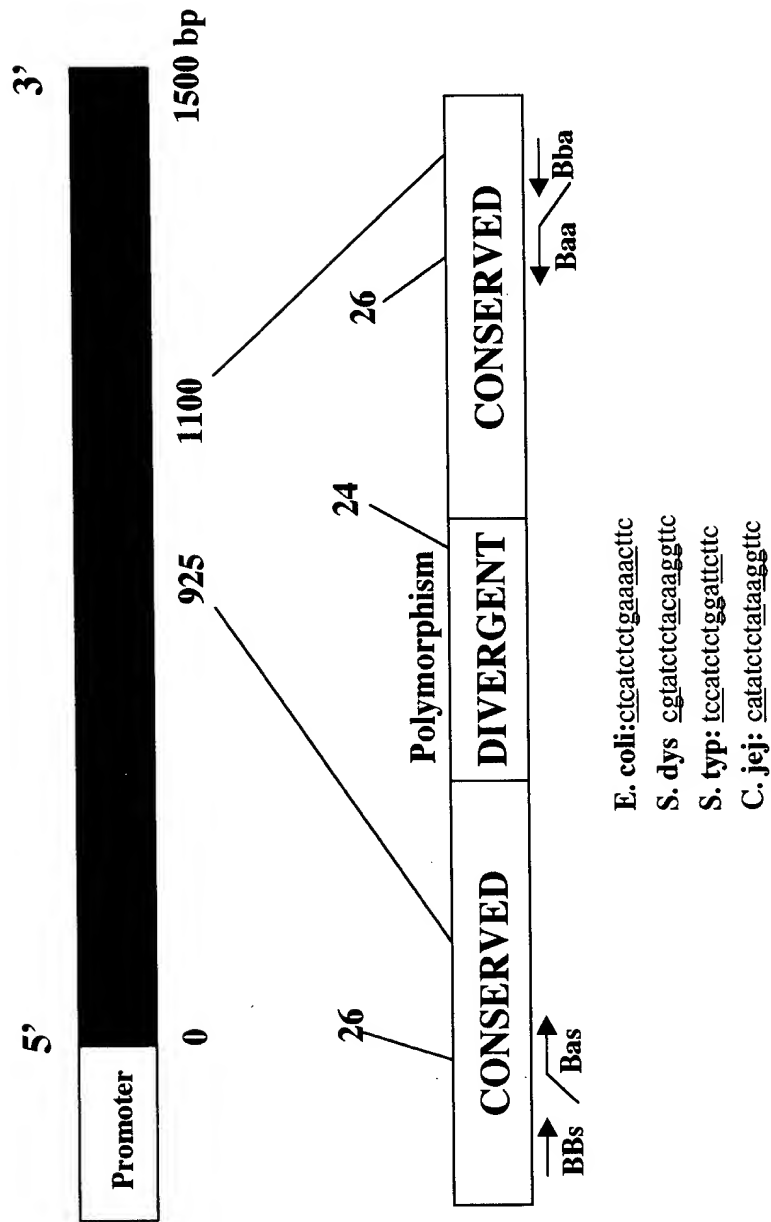


FIG. 1B

09865807 052501

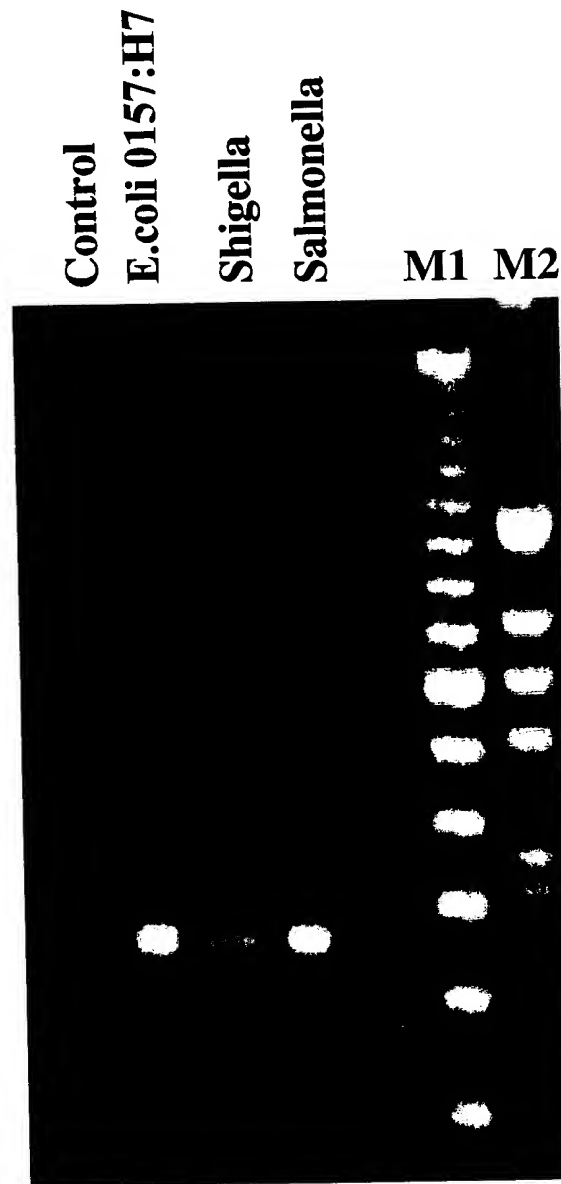
T05250.20859860

FIGURE 2A



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FIGURE 2B



105250" 20859860

105250" 0859860

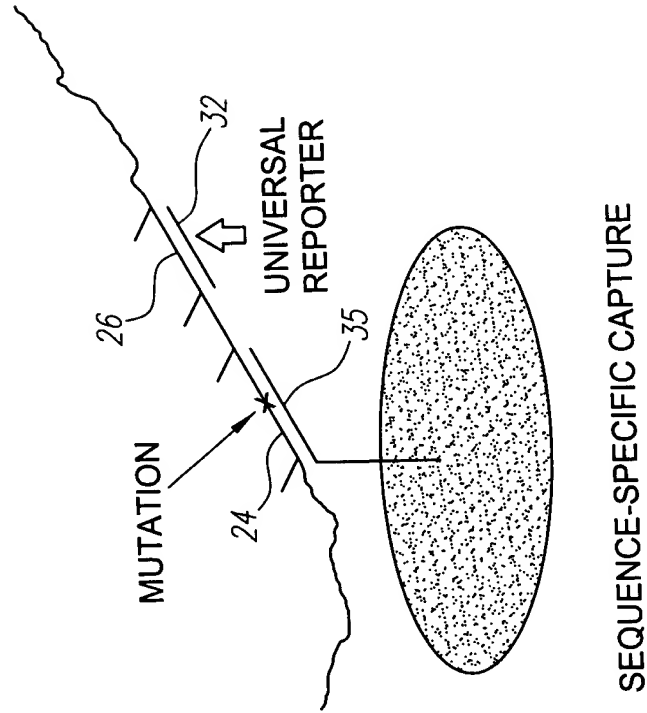


FIG. 2D

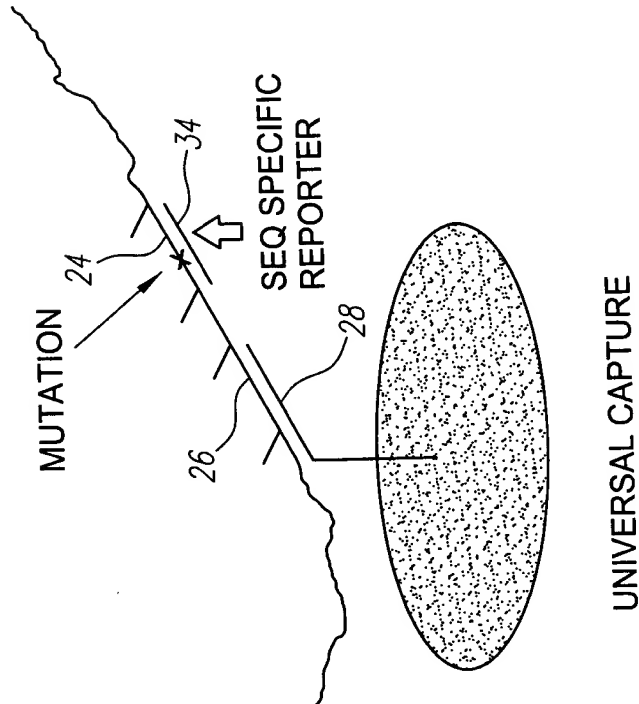


FIG. 2C

105250" 20859860

FIGURE 3A

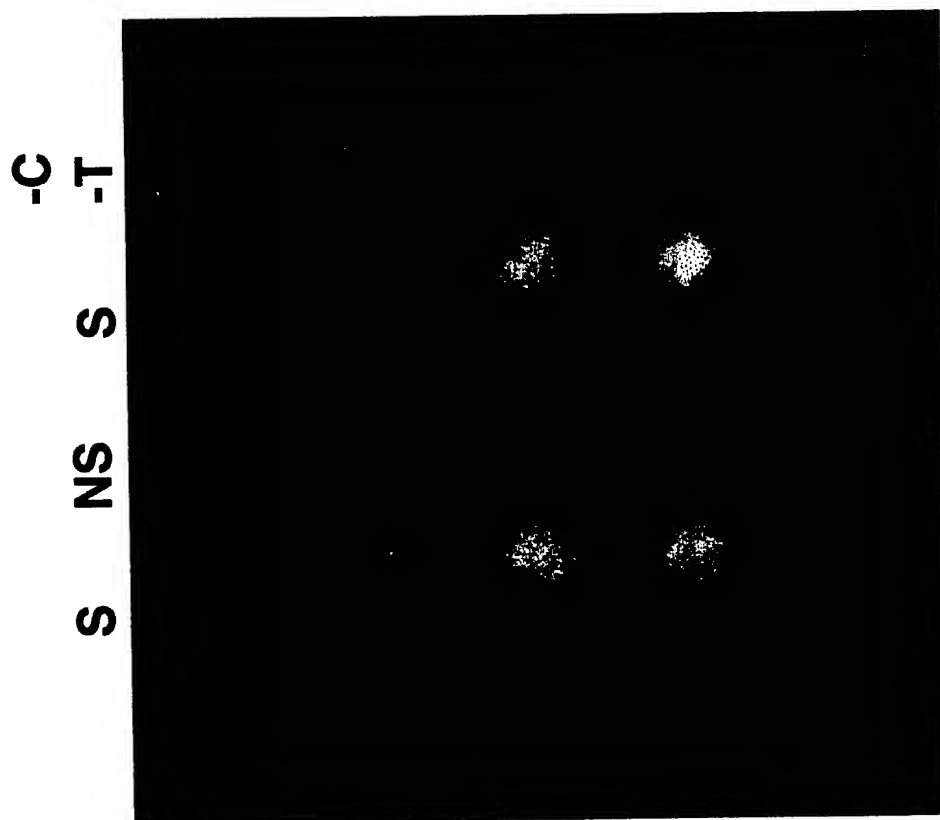
Campylobacter

Shigella

Salmonella

Salmonella

+C, -T



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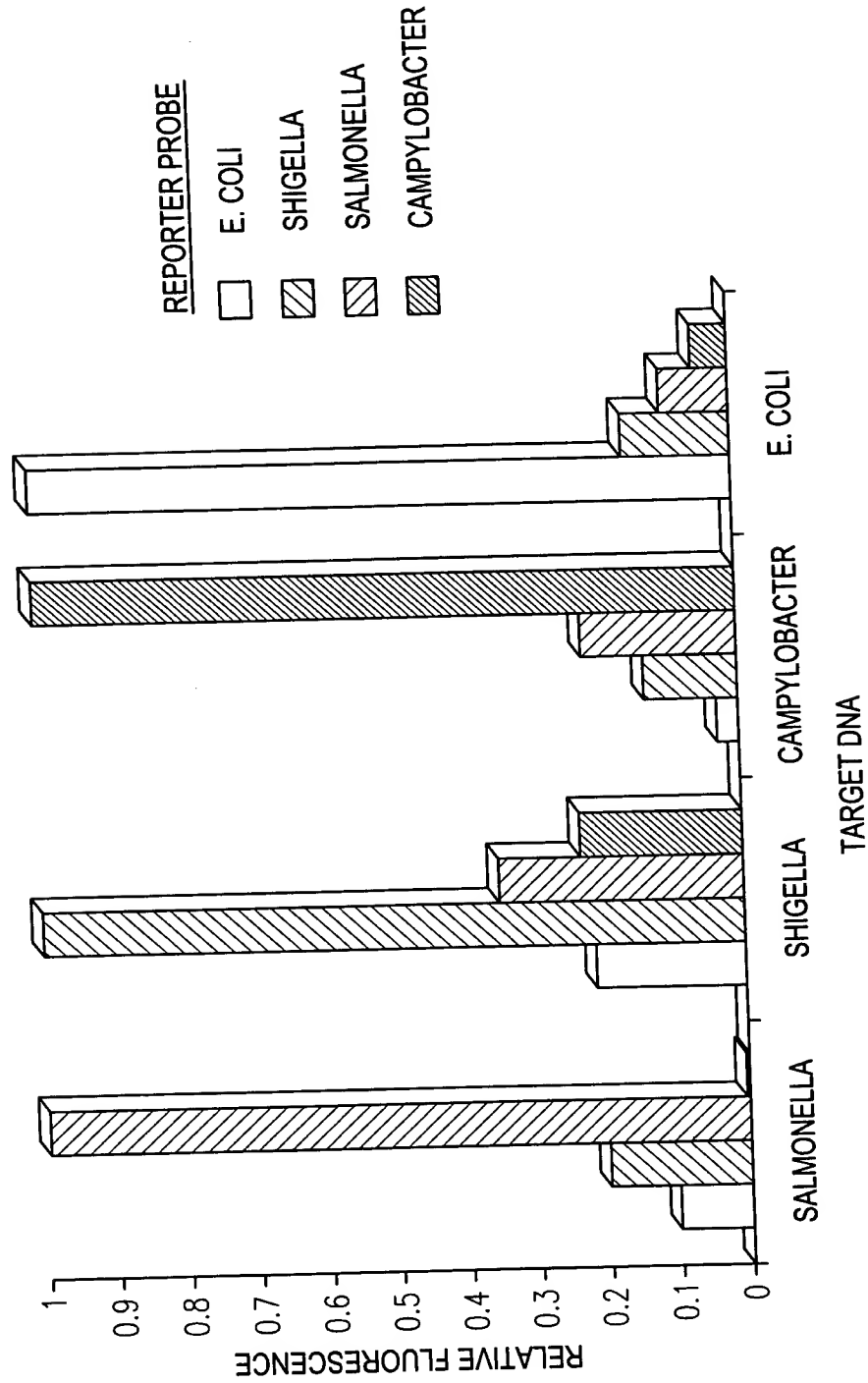


FIG. 3B

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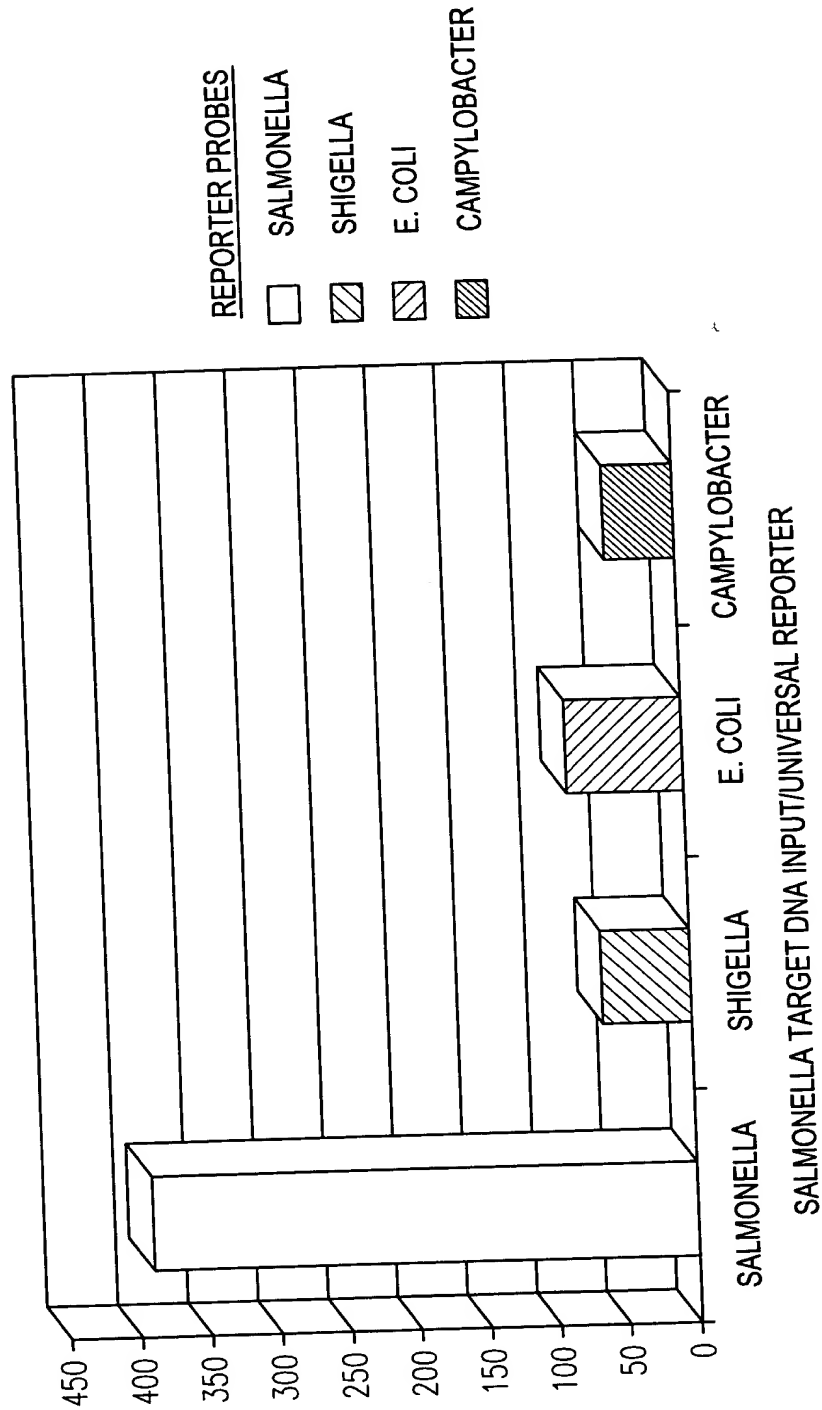


FIG. 3C

T05250" 0859860

FIGURE 4A



105250" 20359860

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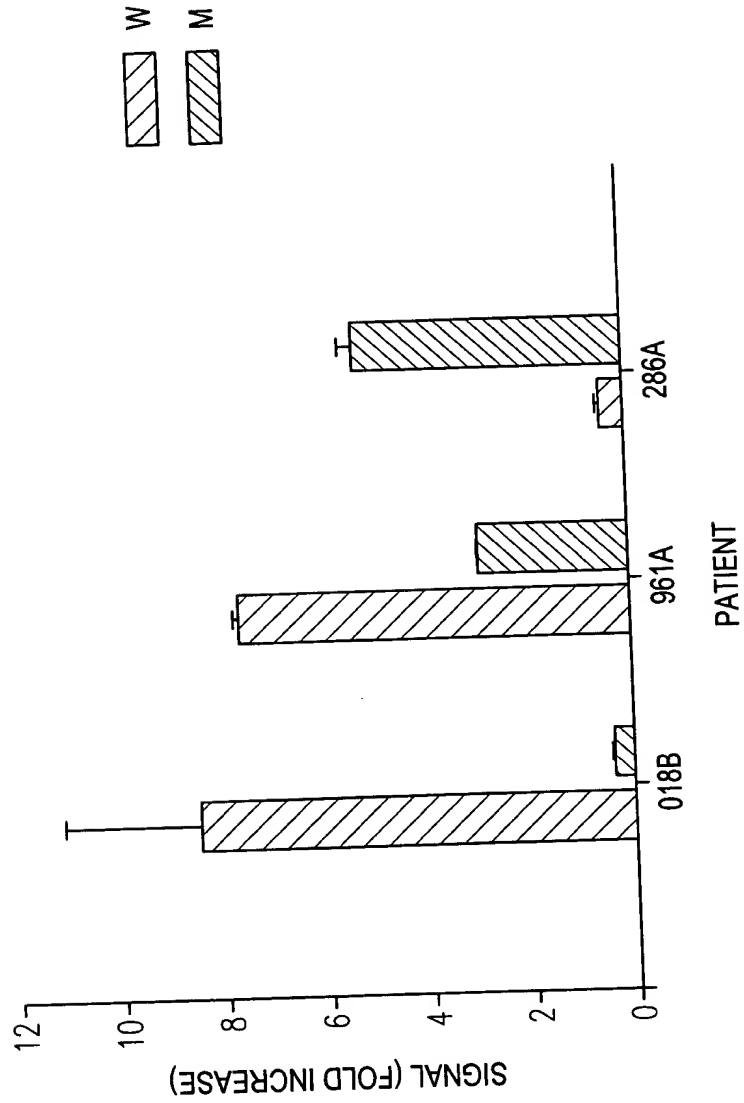


FIG. 4B

105250" 20859860

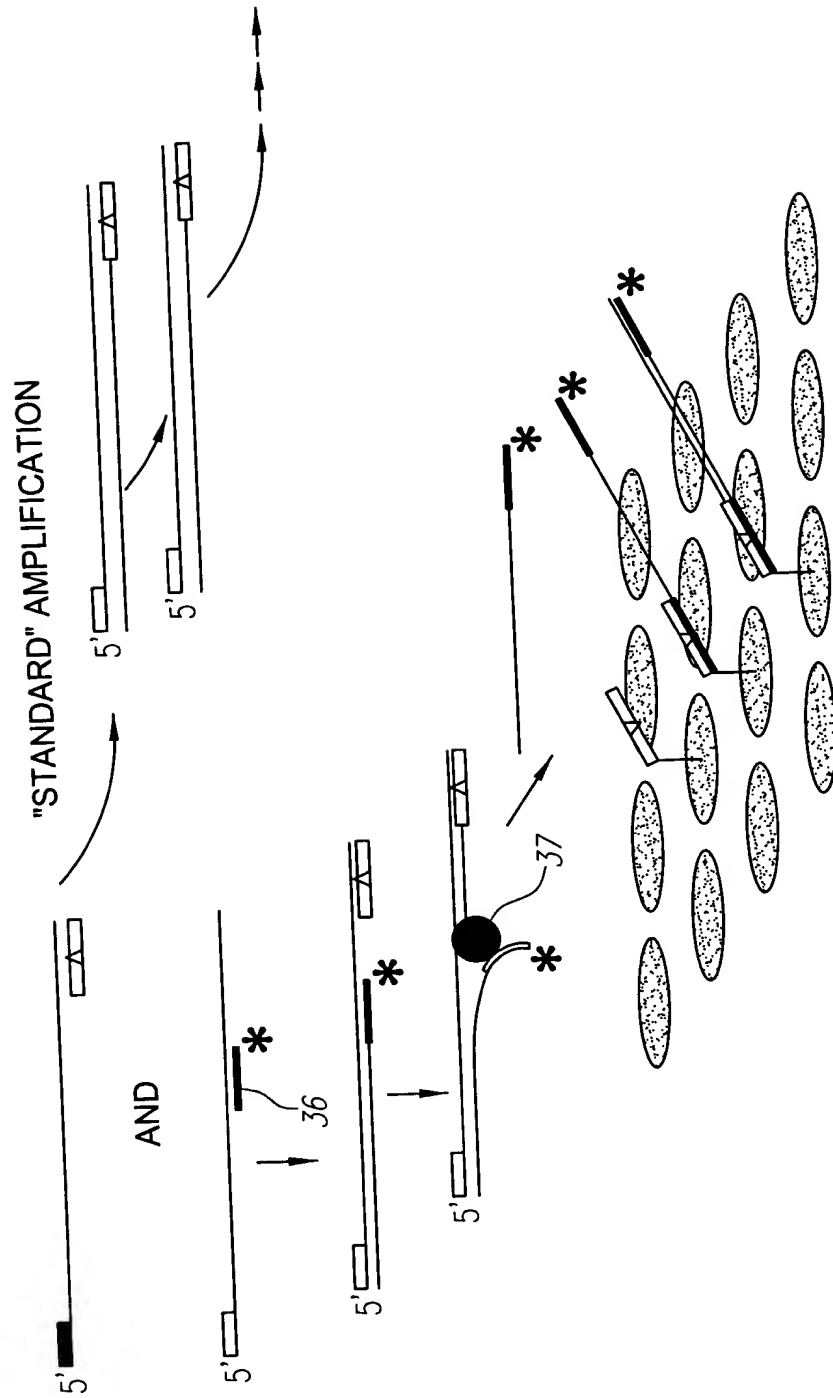


FIG. 5A

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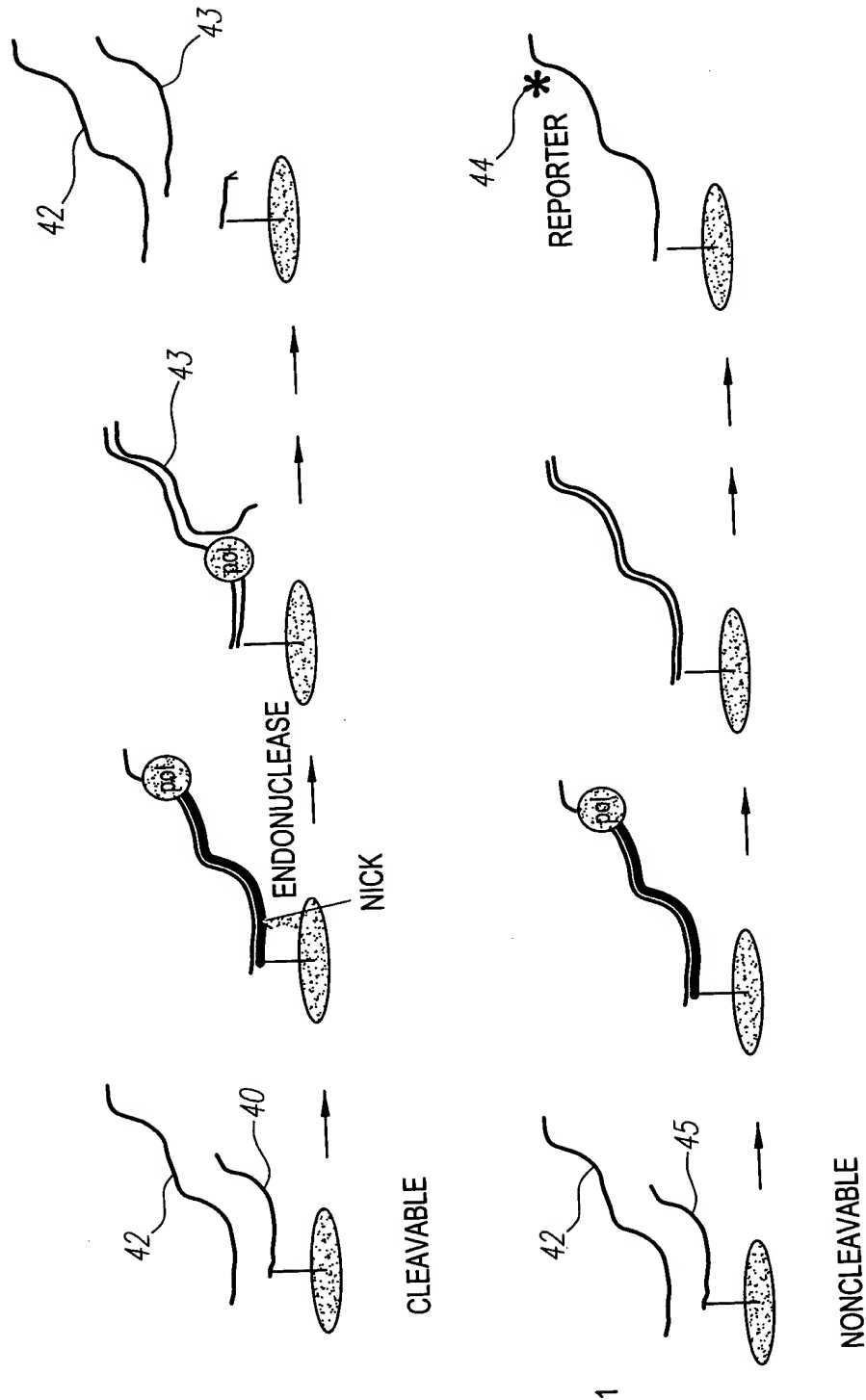


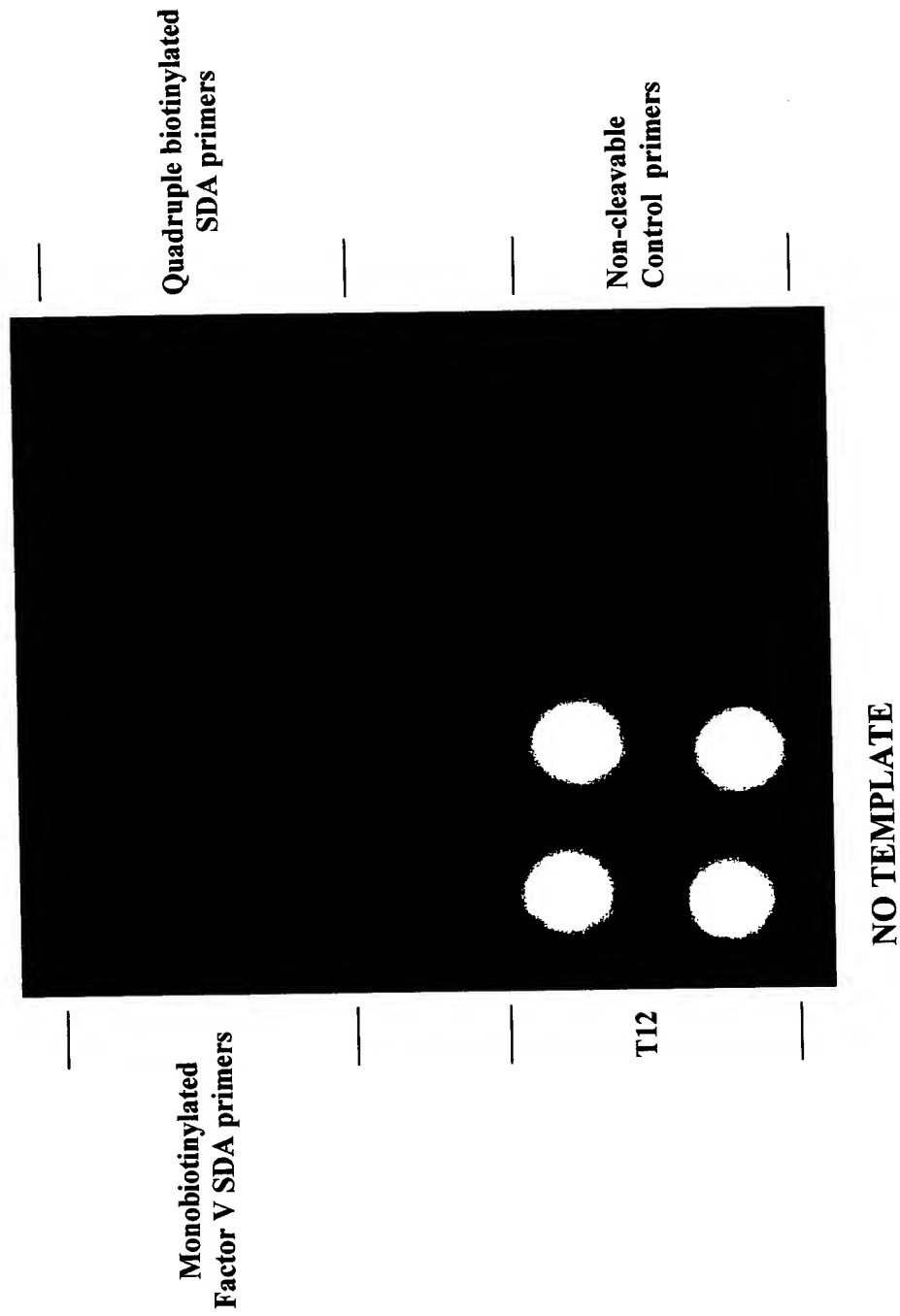
FIG. 5B

T05250" 20859860

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105250" 20359860

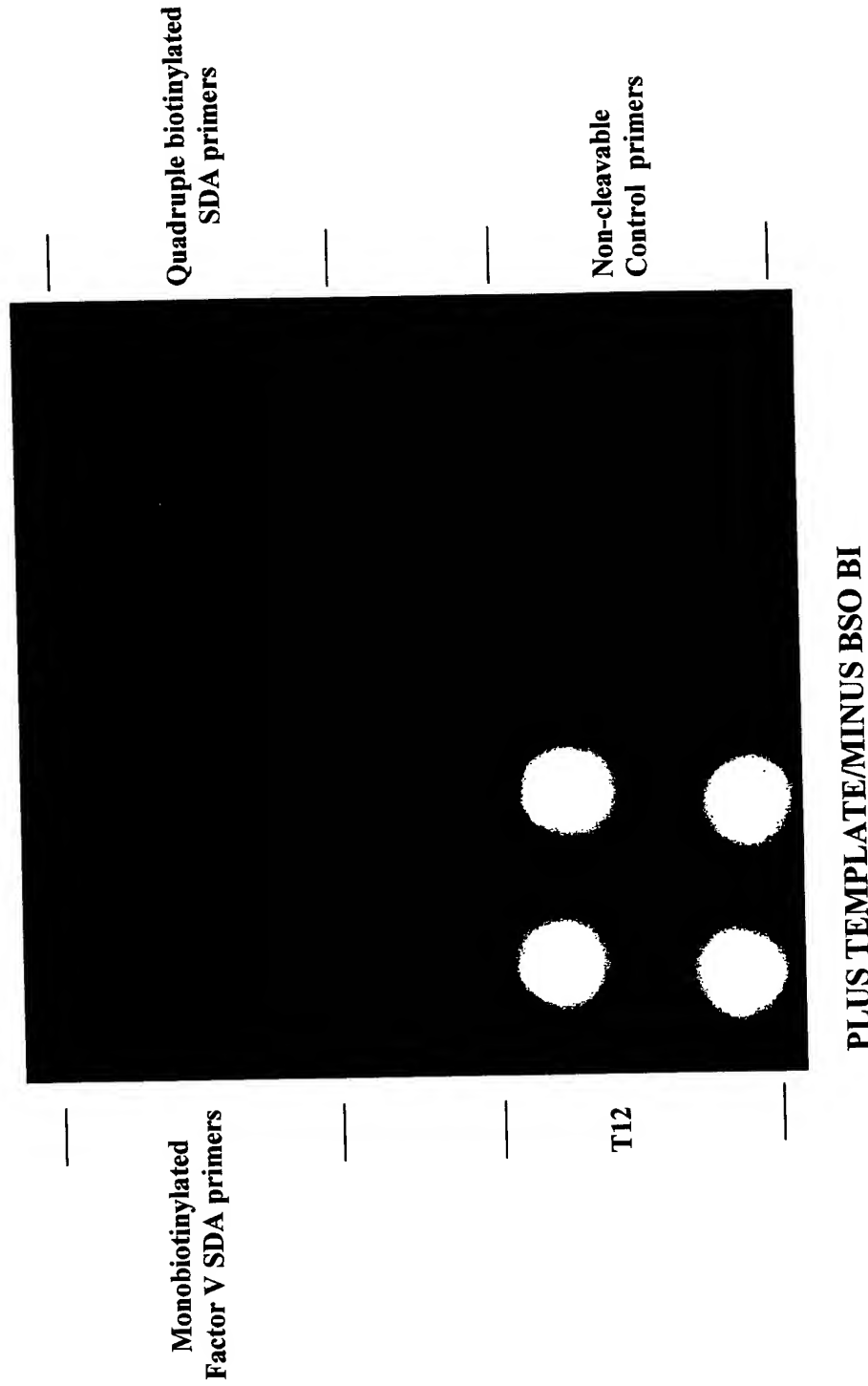
FIGURE 6A



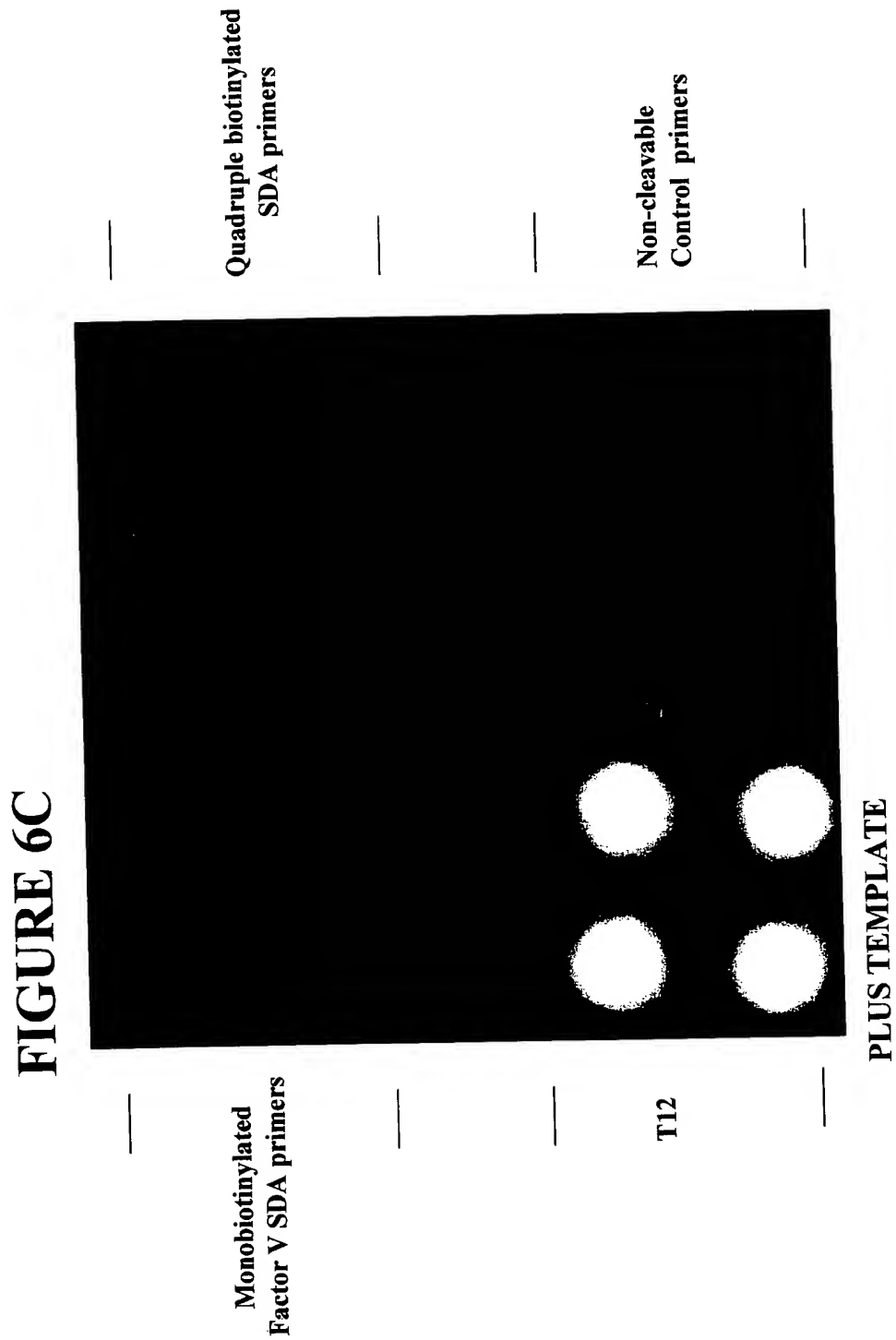
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FIGURE 6B

FIGURE 6B



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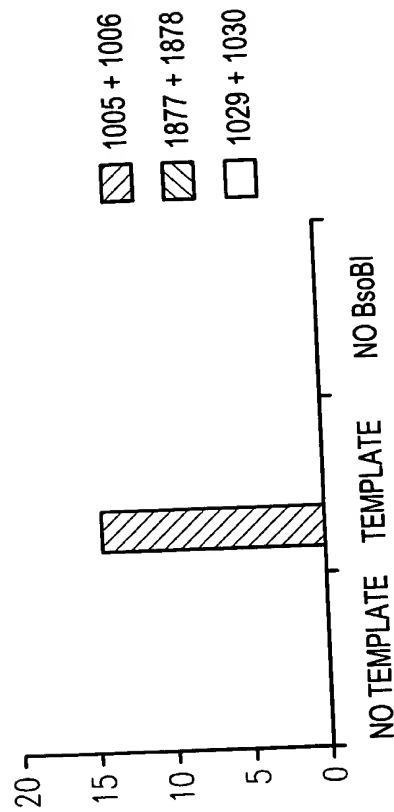


T05250" 20859860

10350" 20859360

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HUMAN COAGULATION FACTOR V ANCHORED SDA IN SITU
ON MICROCHIPS



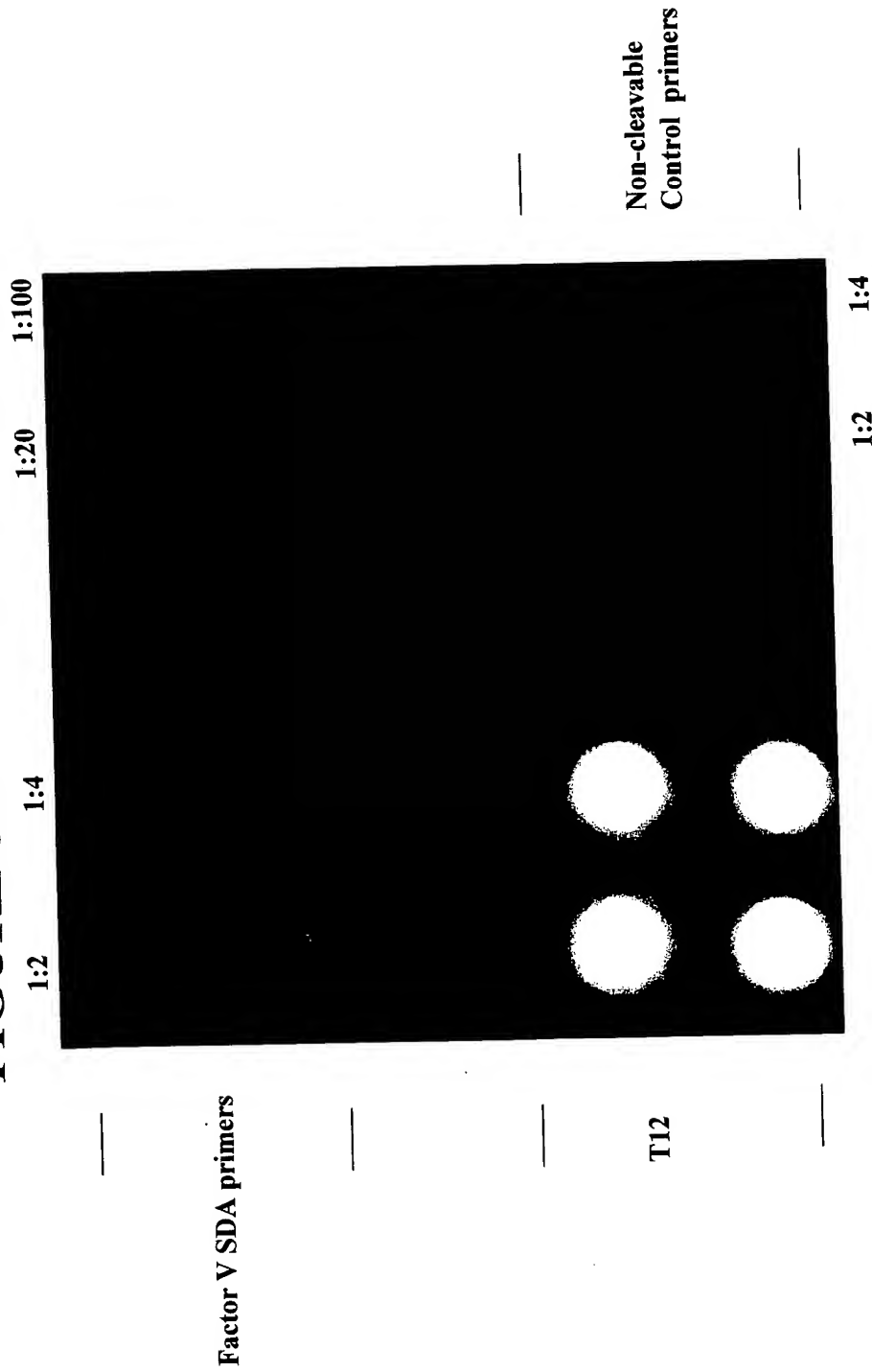
1005 + 1006 = MONOBOTINYLATED PROBES
1877 + 1878 = QUADRUPLE-BIOTINYLATED PROBES
1029 + 1030 = NON-CLEAVABLE CONTROL PRIMERS

FIG. 7

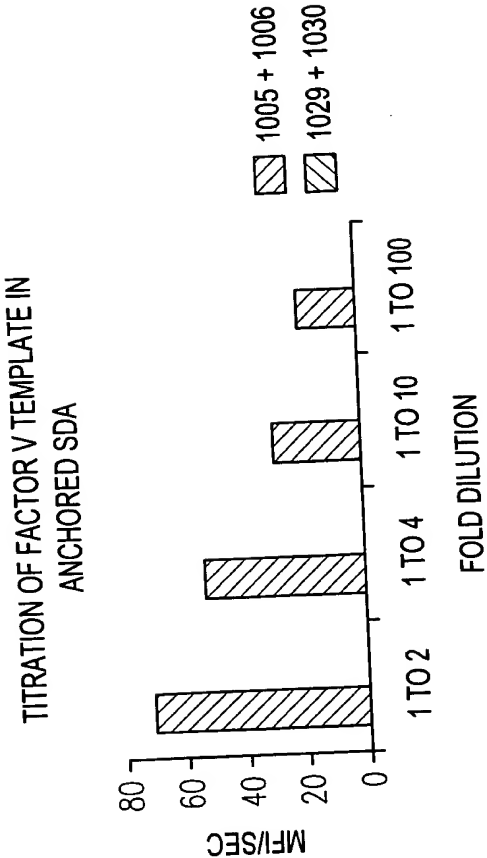
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FO5250" 20859860

FIGURE 8



10550" 0859360



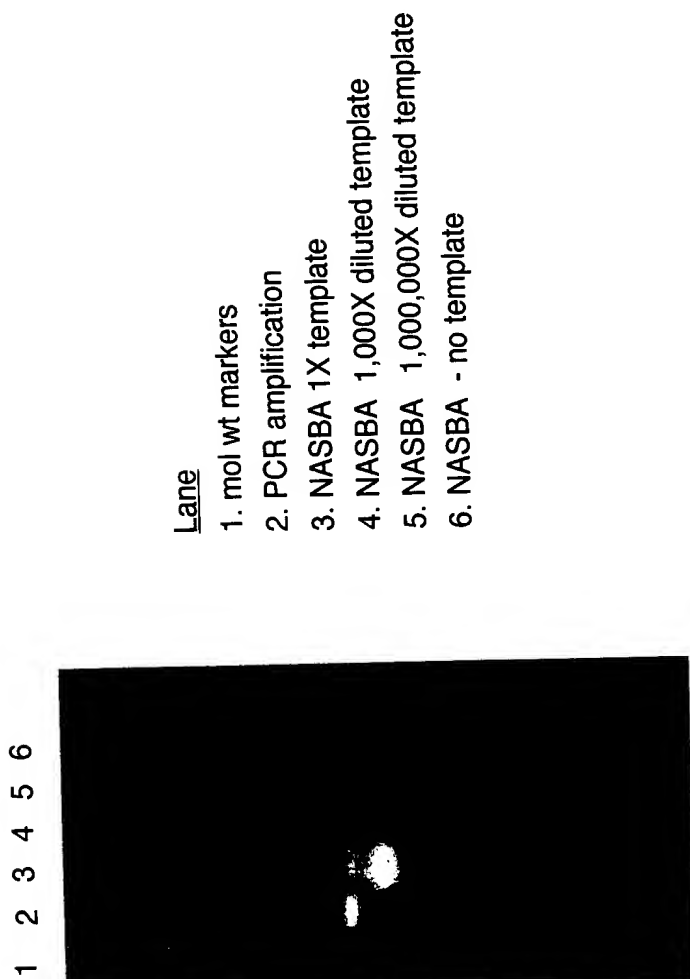
1005 + 1006 = FACTOR V SDA PRIMERS
1029 + 1030 = NON-CLEAVABLE CONTROL PRIMERS

FIG. 9

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105250" 20859860

FIGURE 10A



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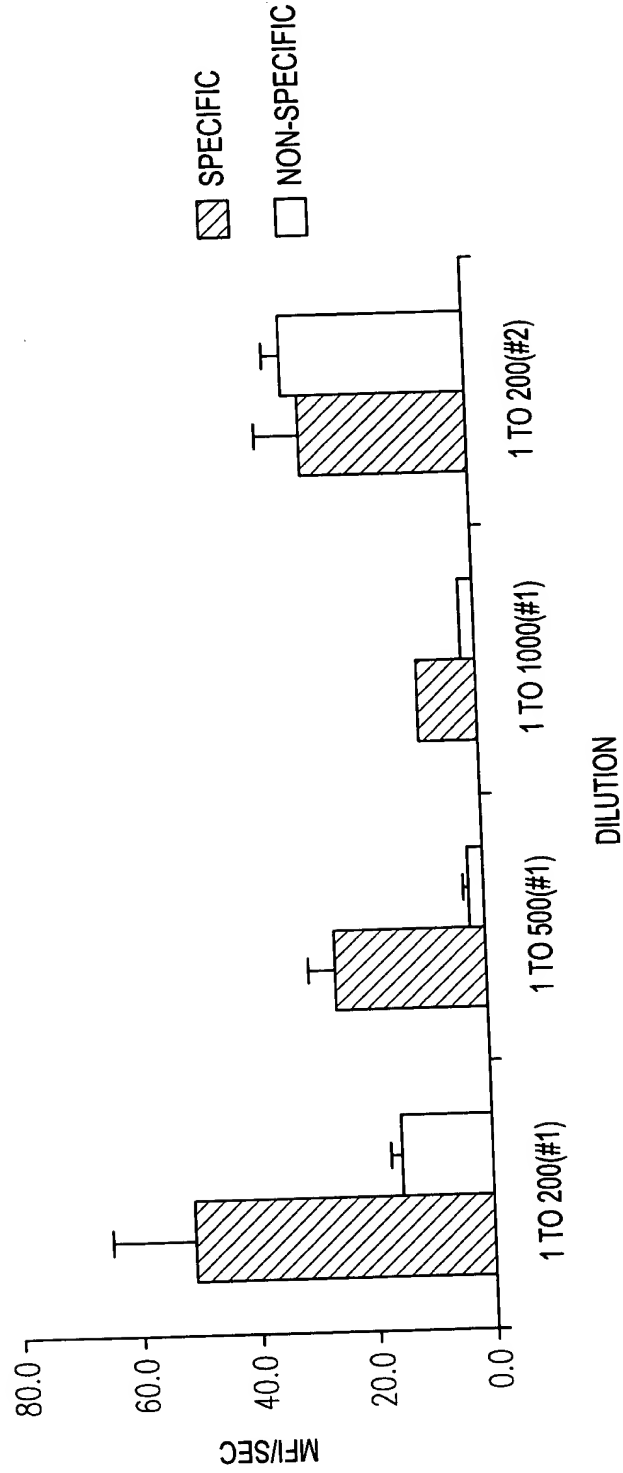


FIG. 10B

105250" 0859860

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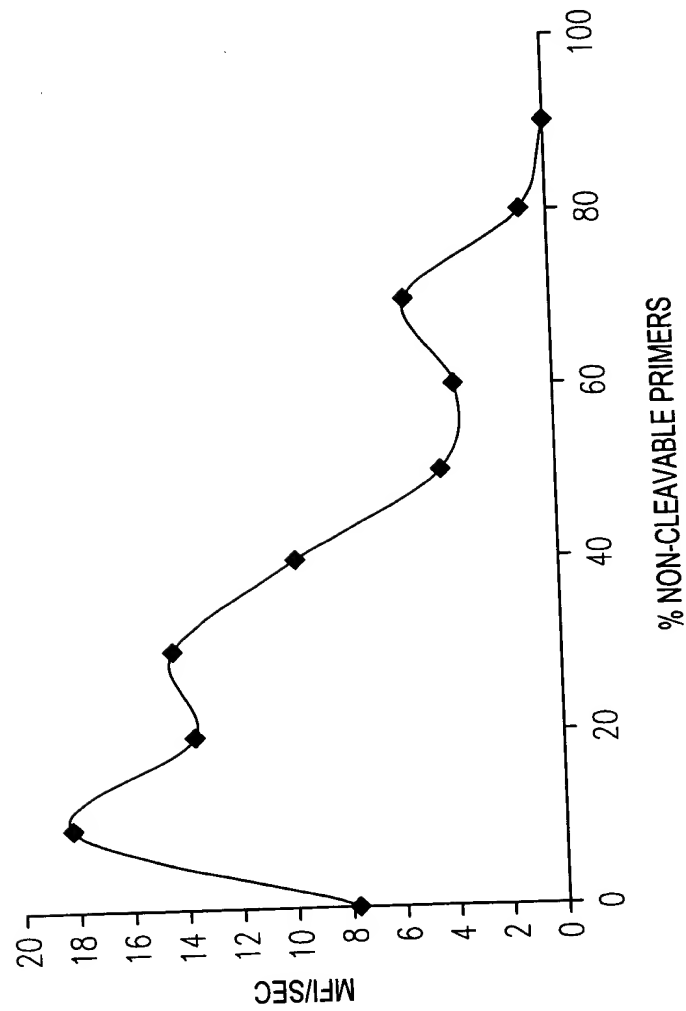


FIG. 11

105250" 20859860

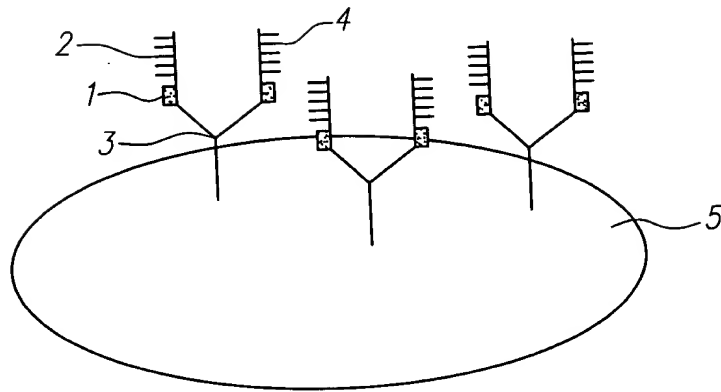


FIG. 12

09365307.052501
T052507.052501

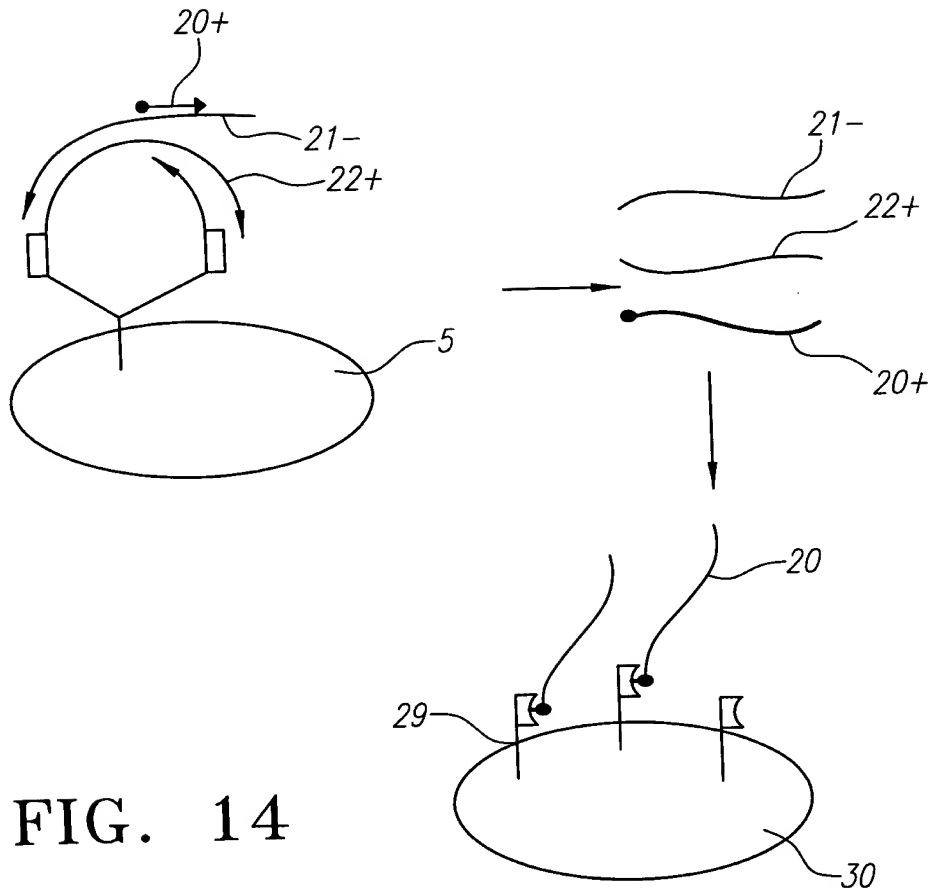


FIG. 14

0965807-052501

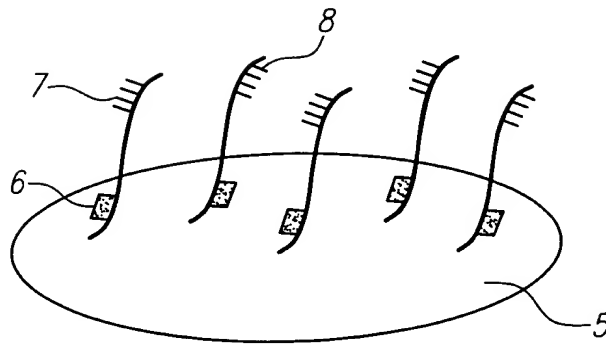
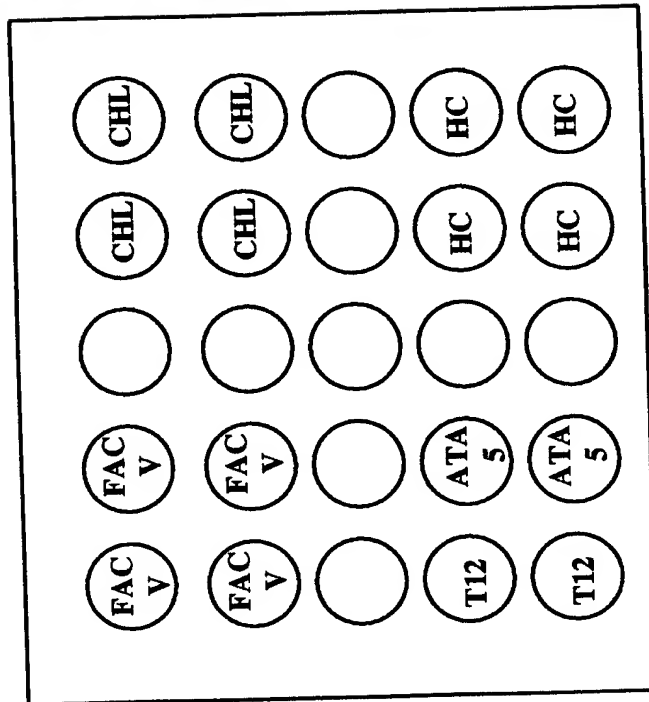


FIG. 15

09290577, 052501

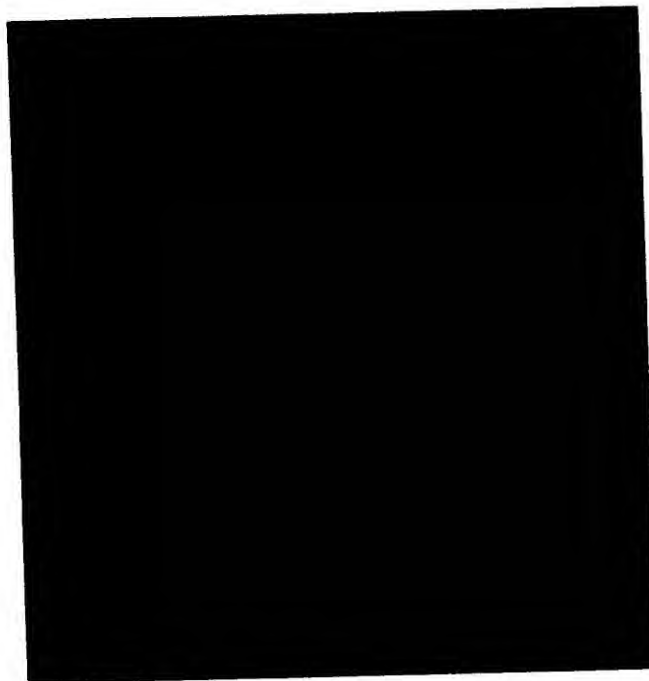
T05250" 20859860

FIGURE 16



Experimental Layout

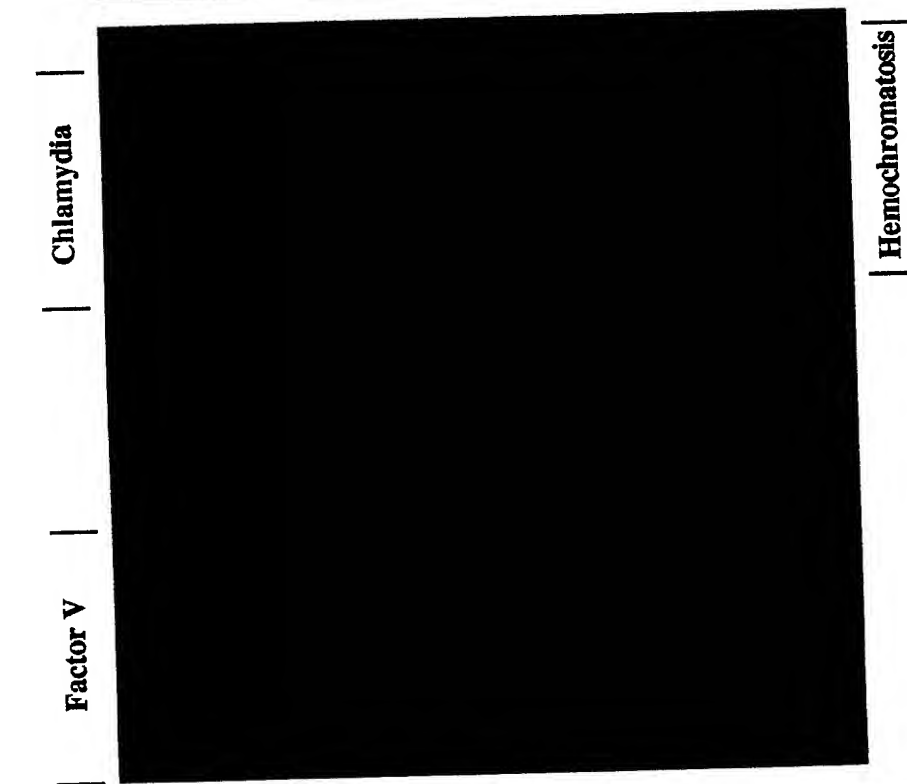
FIGURE 17



Control - No template +
all reporter oligos

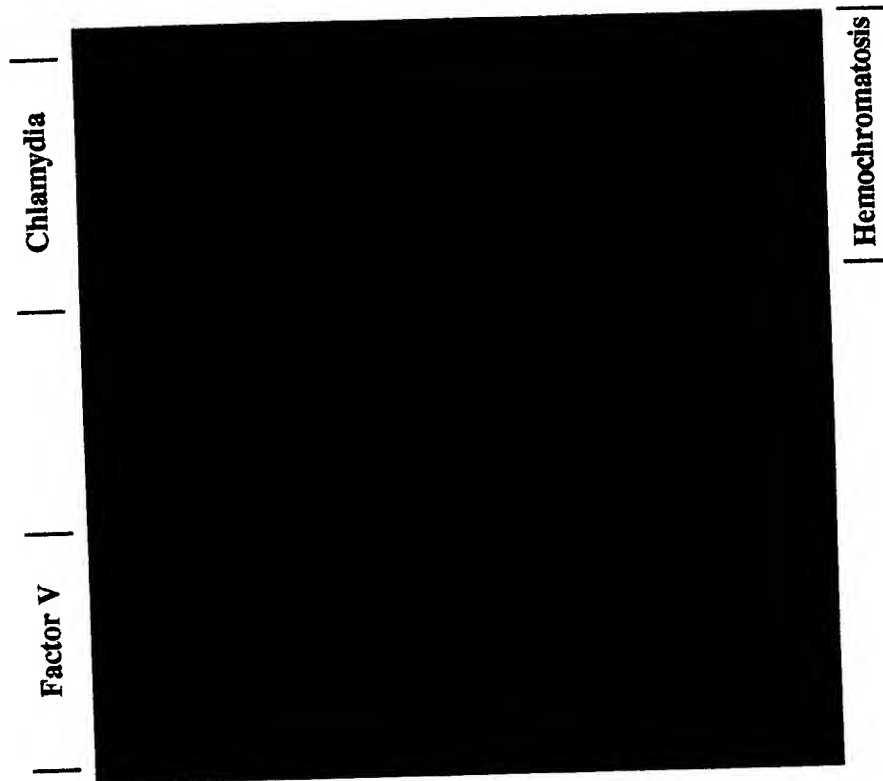
FO5250" 20859360

FIGURE 18



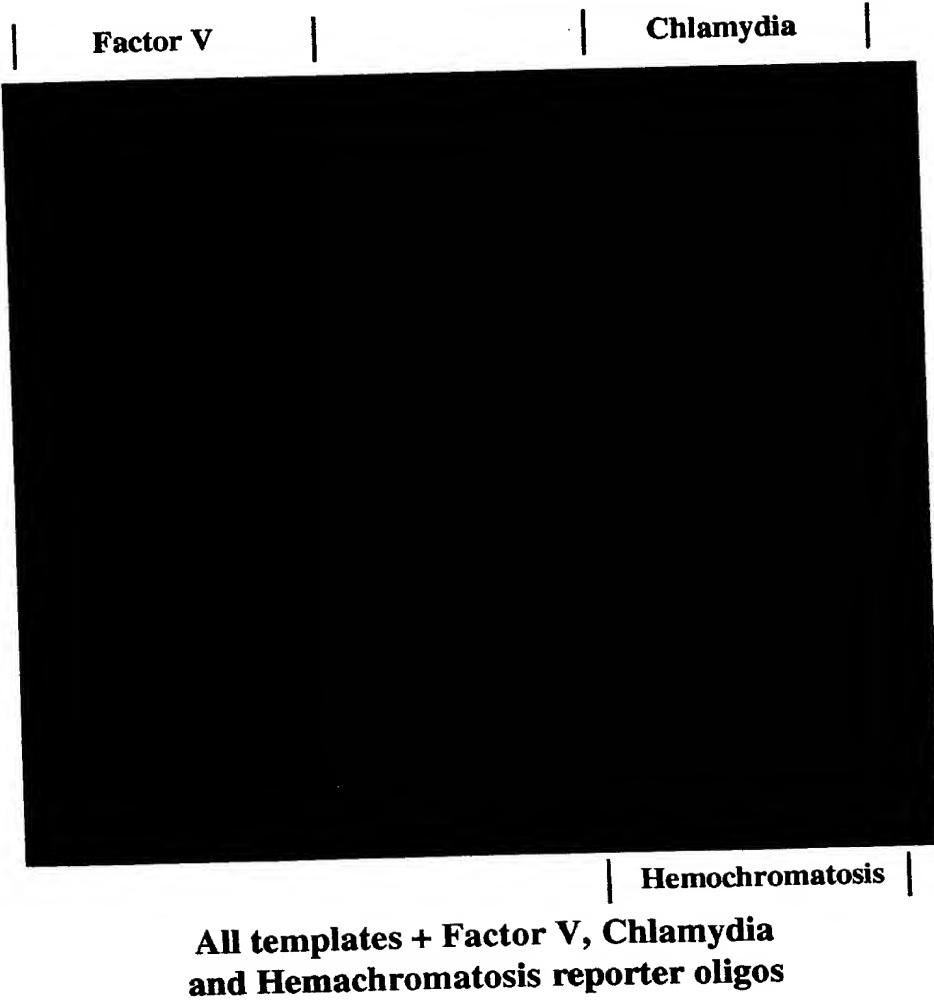
All templates + Factor V Reporter oligo

FIGURE 19



All templates + Factor V, Chlamydia
Reporter Oligos

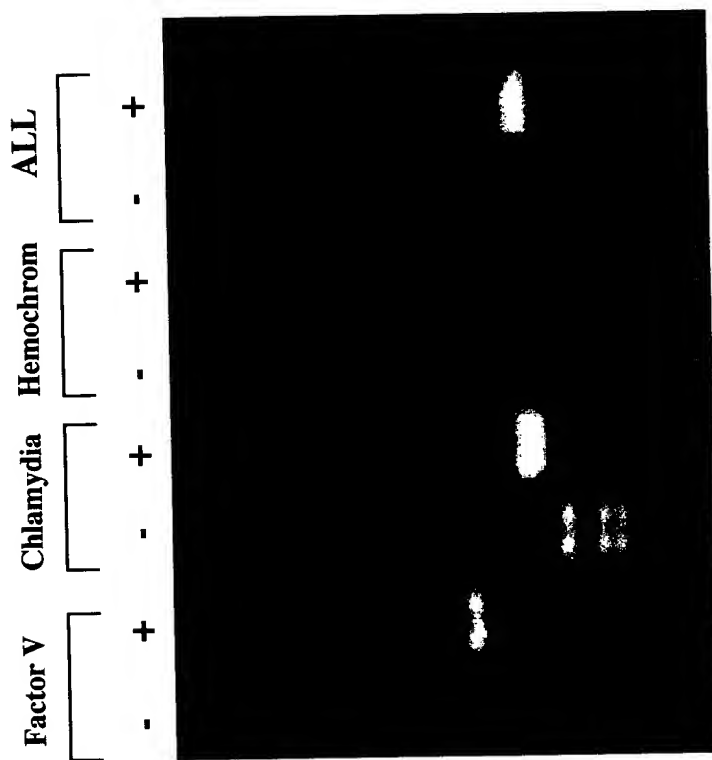
FIGURE 20



095507 05201

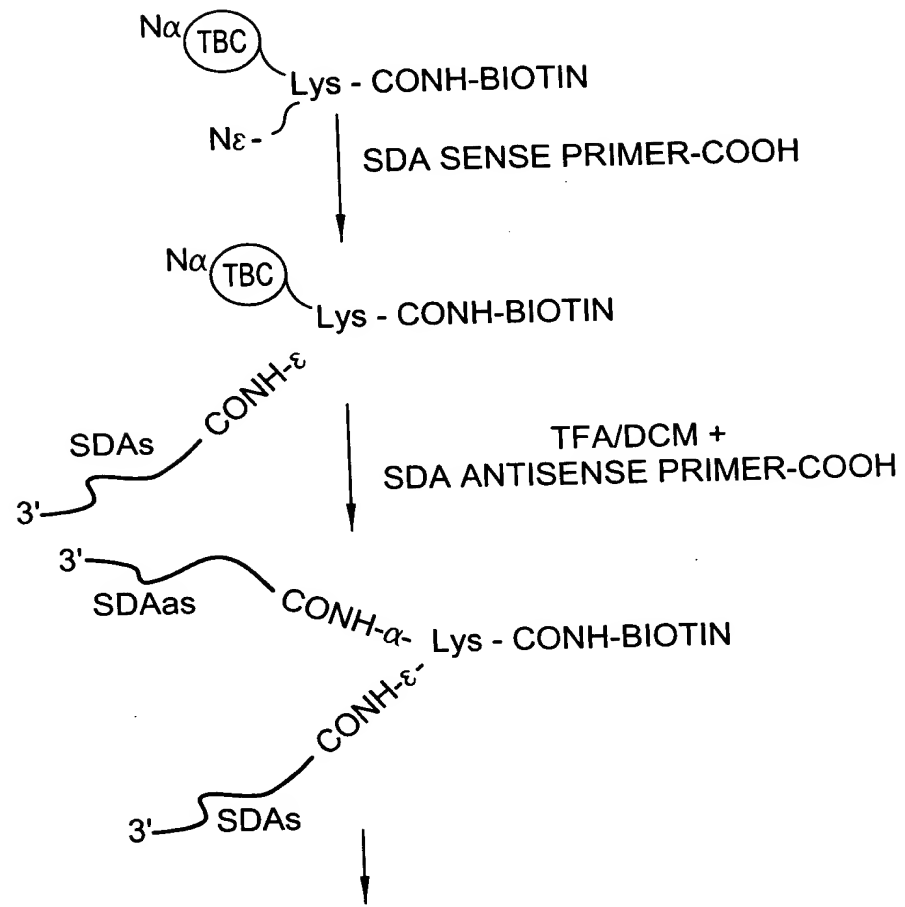
2025070859360

FIGURE 21



Control Solution SDA reactions

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ATTACH TO STREPTAVIDIN PERMEATION LAYER ON MICROCHIP

FIG. 22

095250-20359860

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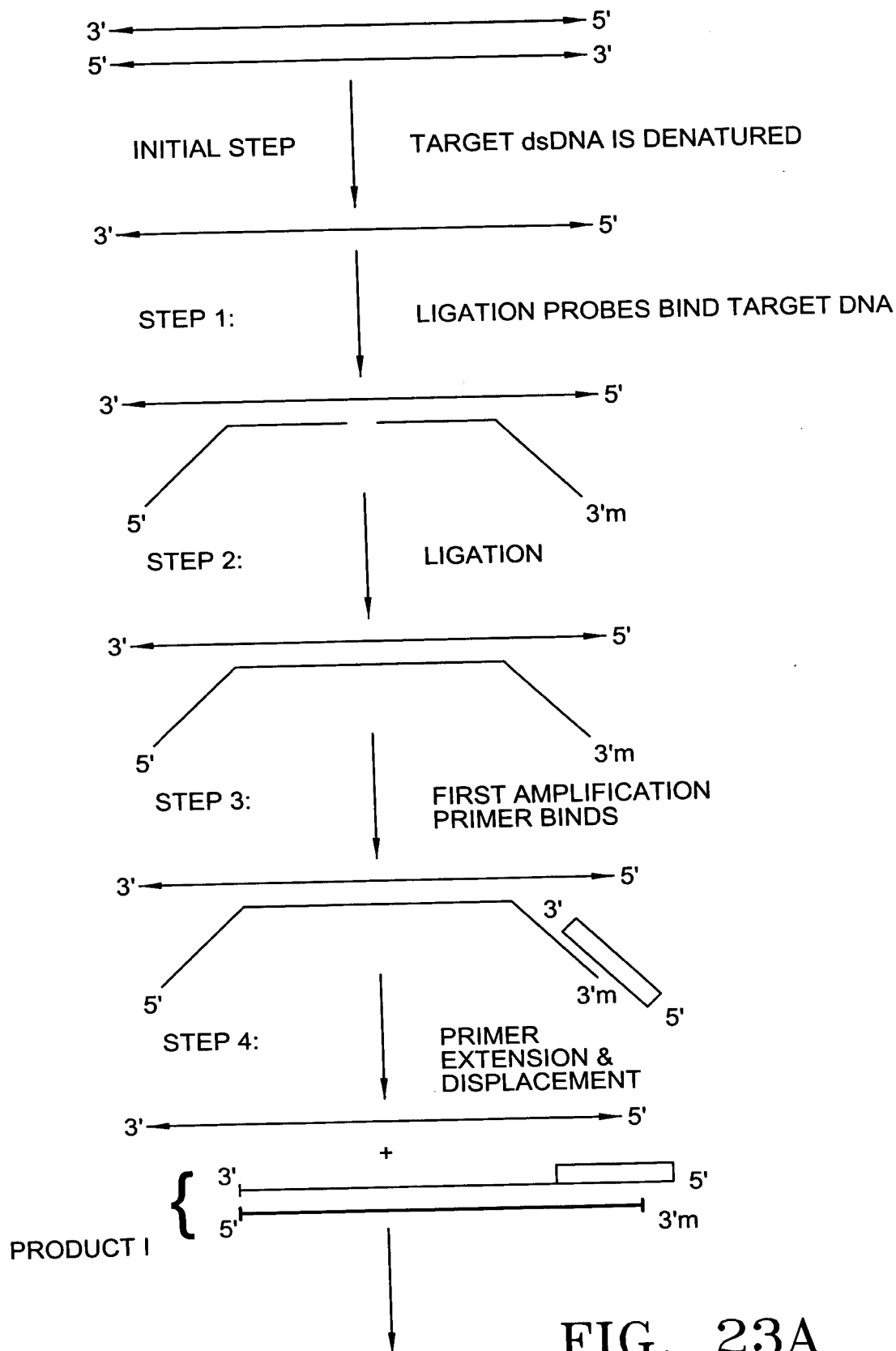


FIG. 23A

09365807.052501

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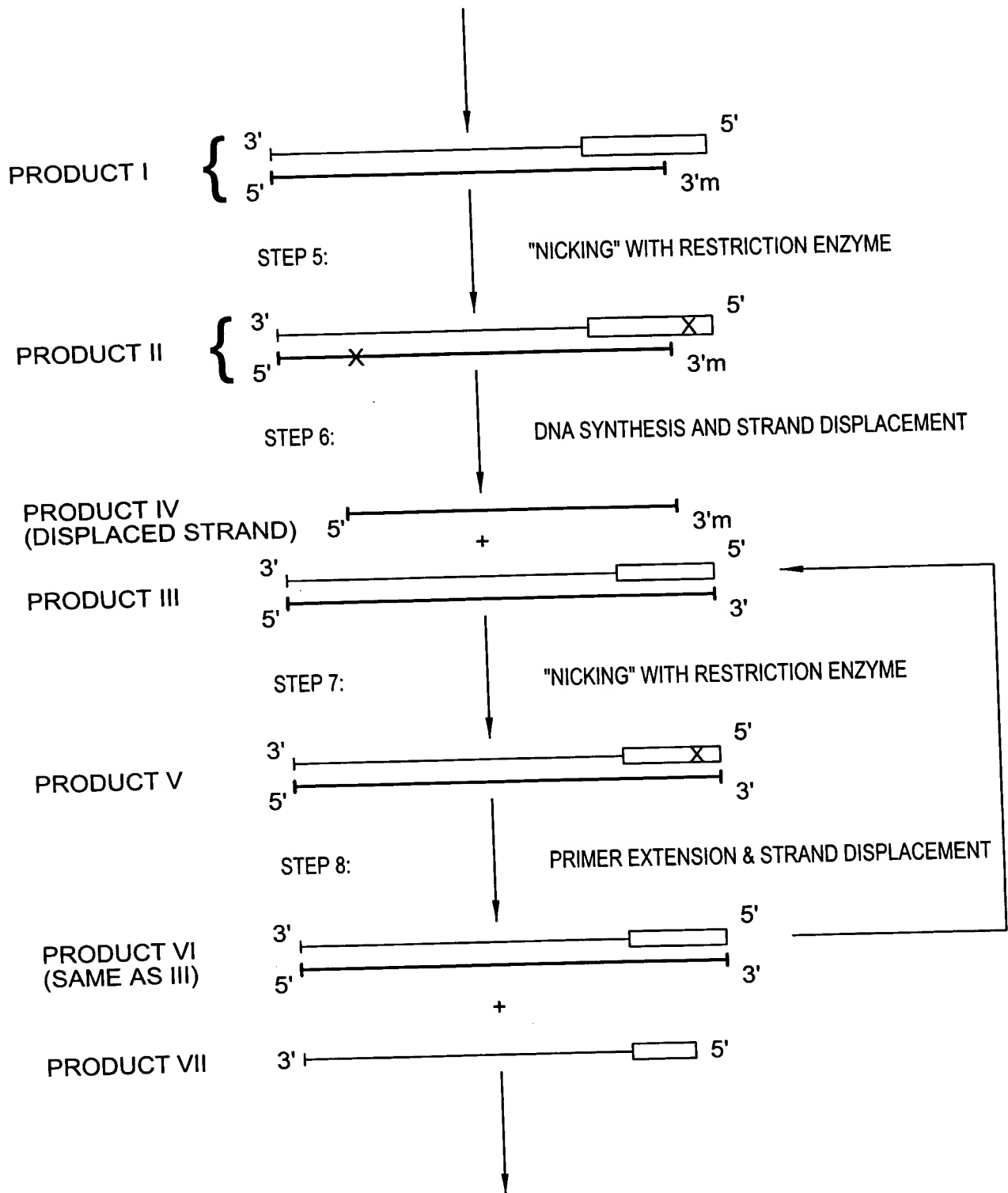
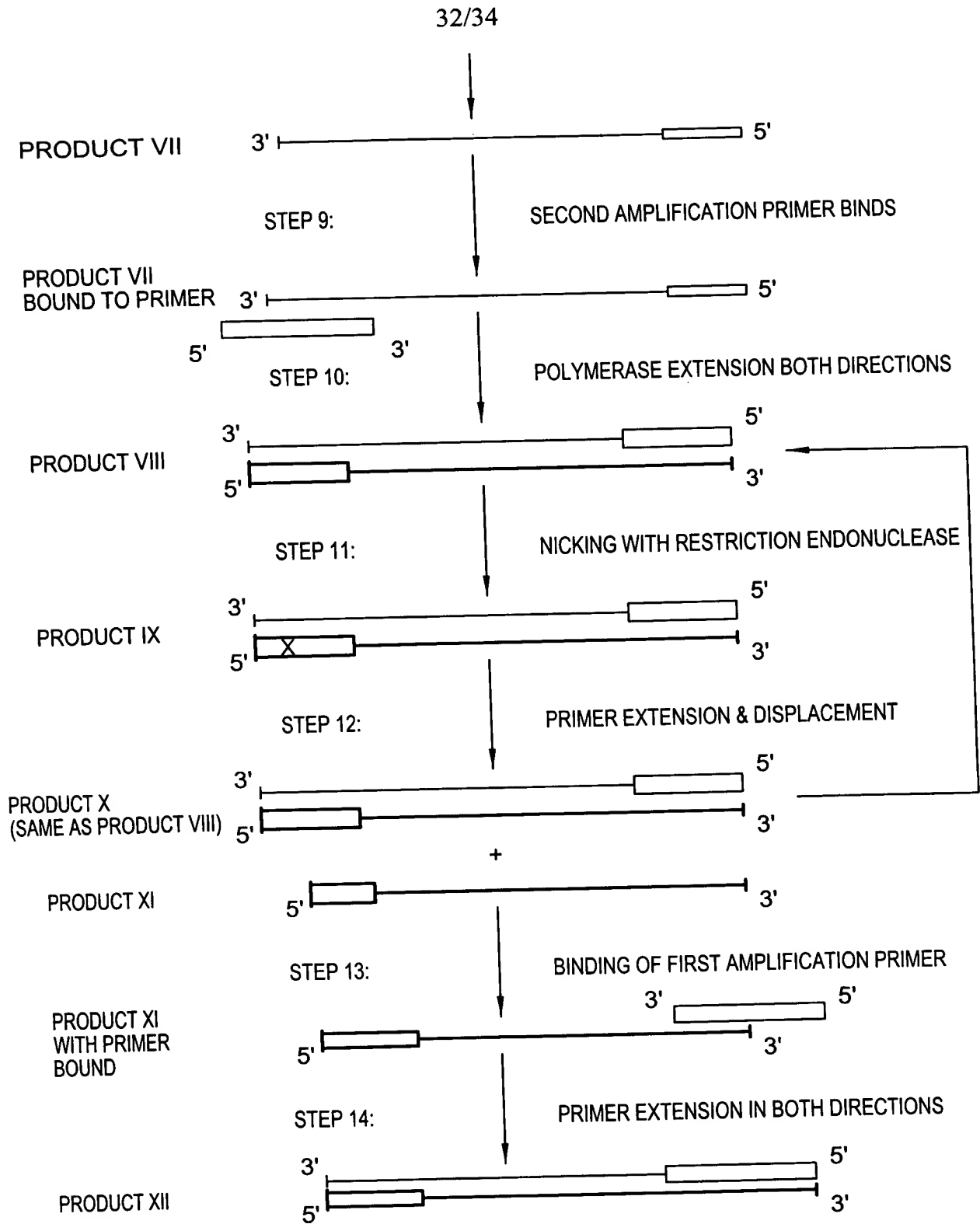


FIG. 23B



(PRODUCT XII CAN RE-ENTER PATHWAY AND BE FURTHER AMPLIFIED IN A MANNER
SIMILAR TO PRODUCT III, FOLLOWING STEP 6)

FIG. 23C

09865807-052501

LIGATION-DEPENDENT DETECTION OF THE SALMONELLA spaQ GENE

LIGATION PROBES LP1 AND LP2:

spaQ¹ TEMPLATE 5-nnnnncaacatcacatcattacgagacgggatagttaaatggatgatttagtgnnnnn-3'

LP1² 3-*aattccgcagctgggtaatgttgactgtagtaatgctctgc*-5' 3'-cctatcaattacactactaaatcacgattatcccctagagtcacatgtgggctc LP2³

ttcagacctcgcccttagc-5'

AMPLIFICATION PRIMER SEQUENCES S1 AND S2:

LP1 3-*aattccgcagctgggtaatgttgactgtagtaatgctctgc*-5'

S1⁴ 5'-accgcacgaatgcacatgtctcgggtaaggcgactcgacc

LP2 3'-cctatcaattacactactaaatcacgattatcccctagagtcacatgtgggctc ttcagacctcgcccttagc-5'

S2⁵-----S2⁵-----

FIG. 23D

105250" 40859860

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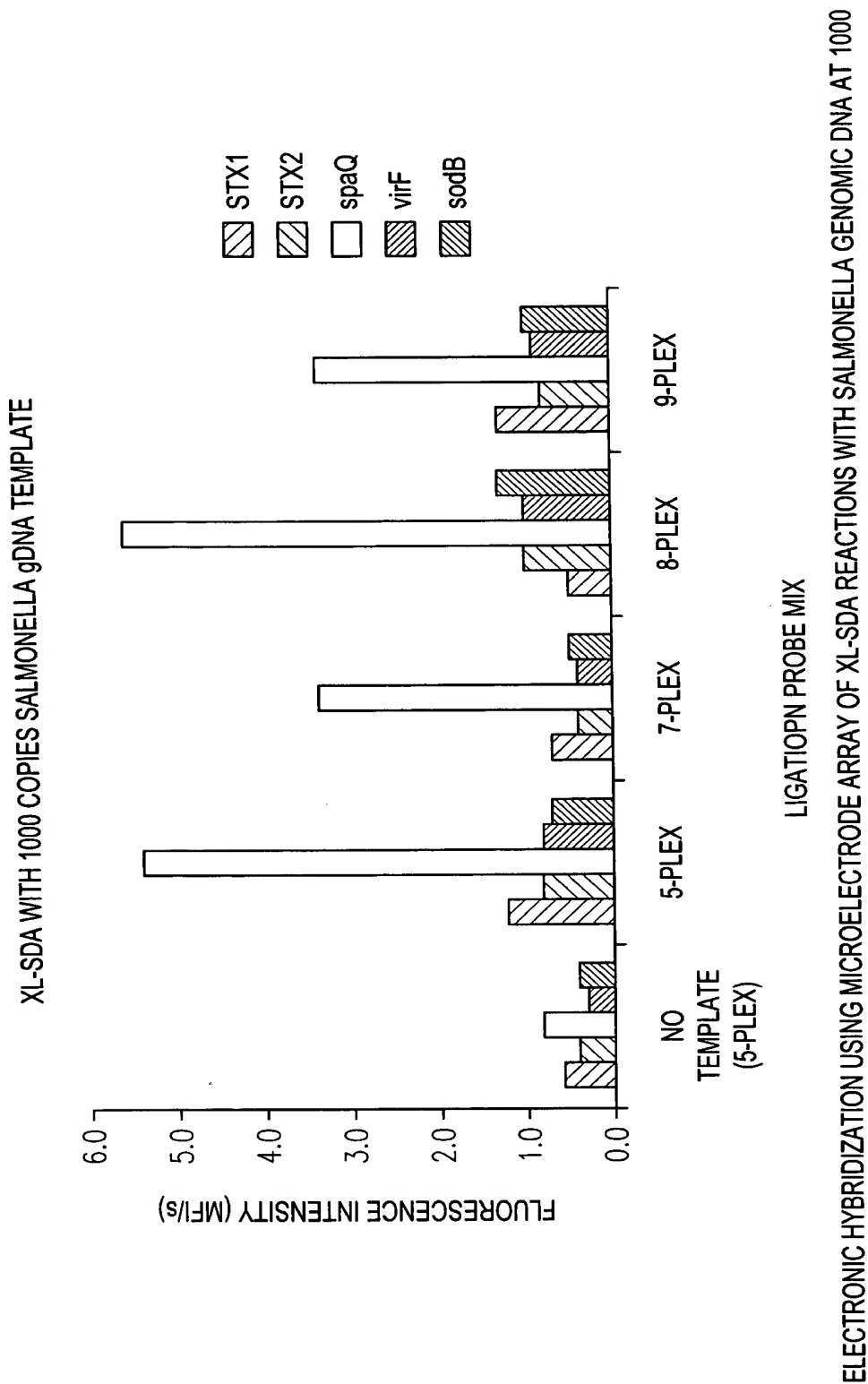


FIG. 24